

June 30, 2015

Dr. Shridhar Bhat 6331 River Road Richmond, VA 23229

RE: Tanglewood Home For Adults WWTP Permit Application

VPDES # VA0090646

Dear Dr. Bhat:

Enclosed please find the completed permit application for the above referenced facility. Please review the application and sign where indicated. Once signed, the complete permit package must be mailed to:

DEQ – BRRO Attn: Becky France 3019 Peters Creek Road Roanoke, VA 24019-2738.

If you have any questions or comments, I can be reached at (540) 862-5138 or by email: brianw-ess@lumos.net

Sincerely,

Brian White Project Manager

Environmental Services Division

Enclosure

Mrs. Becky France Department of Environmental Quality Blue Ridge Regional Office 3019 Suite C, Peters Creek Road Roanoke, VA 24019

Date:

June 23, 2015

Subject:

VPDES # VA0090646 Permit Renewal Request for Waiver – PCB Monitoring

Dear Mrs. France,

I would like to request an Exception for PCB testing at the Tanglewood Home for Adults WWTP. Due to the facility size and location I do not believe this testing is necessary.

The treatment plant was built in 2003 to serve an assisted living facility. Prior to being an assisted living facility the property was a motel. To my knowledge, no industrial activity has occurred on the property, nor is any anticipated in the future. As such, there is not a likely source of PCB's to justify the expense of testing for a contaminant that is not likely to be present.

Thank you for your assistance in this matter.

Sincerely

2. Shridhar Bhat

Tanglewood Home For Adults WWTP VA0090646

FORM 2A

2A NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States a meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- **G. Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

EACH ITY	BIABET A	ND DEDMIT	MIREDED.
FACILII 1	NAMEA	ND PERMIT	NUMBER:

Tanglewood Home for Adults WWTP

Form Approved 1/14/99 OMB Number 2040-0086

ВА	SIC APPLICAT	TION INFO	RMATION							
PAR	T A. BASIC APPL	ICATION INF	ORMATION FOR ALL	APPLICA	NTS:					
All tr	eatment works must	complete questi	ons A.1 through A.8 of t	this Basic Ap	plication information pa	acket.				
A.1.	Facility Information.									
	Facility name	Tanglewoo	od Home for Adu	Its WWT	P	· · · · · · · · · · · · · · · · · · ·				
	Mailing Address	P.O. Box	808							
		Covingtor	n, VA 24426							
	Contact person	Ms Nancy	Jordan							
	Title	Administ	rator							
	Telephone number	(540) 962	-4967							
	Facility Address	4401 Midl	and Trail							
	(not P.O. Box)	Covingto	n, VA 24426							
A.2.	Applicant Information	n. If the applican	t is different from the abov	ve, provide the	following:					
	Applicant name	Environm	ental Systems S	ervice, Lt	d					
	Mailing Address 218 N		ain Street							
		Culpeper	, VA 22701		****					
	Contact person	Mr. Brian	White							
	Title	Project M	lanager							
	Telephone number	(540) 862	-2503	· · · · · · · · · · · · · · · · · · ·						
	Is the applicant the o	owner or operate	or (or both) of the treatm	nent works?						
	Indicate whether corre	spondence regar	ding this permit should be	directed to th	e facility or the applicant.					
	facility	X	applicant							
A.3.	Existing Environment (include state-issued page 1)	ntal Permits. Pro permits).	ovide the permit number of	f any existing	environmental permits that	t have been issued to the treatment works				
	NPDES VA009	0646								
	UIC			<u> </u>	PSDOther					
	RCRA			_	Other	The second secon				
A.4.	Collection System In entity and, if known, pr	Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).								
	Name		Population Served	Туре	of Collection System	Ownership				
	Tanglewood A	dult Home	150	Se	parate	Private				
		 								
	Total pop	ulation served	150							

FACILITY NAME AND PERMIT NUMBER:

Tanglewood Home for Adults VA0090646

Form Approved 1/14/99 OMB Number 2040-0086

	Indian Country.					
	a. Is the treatment works located in Indian Co	untry?				
	YesX No)				
	b. Does the treatment works discharge to a re through) Indian Country?	eceiving water that is either	in Indian Country or that is up	stream from (and e	eventually flows	
	YesXNo)		•		
	Flow. Indicate the design flow rate of the treatr daily flow rate and maximum daily flow rate for month of "this year" occurring no more than thr	each of the last three years	s. Each year's data must be ba	s built to handle). sed on a 12-montl	Also provide the n time period wit	e average th the 12
	a. Design flow rate 0.018 mgd					
		Two Years Ago	<u>Last Year</u>	This Year		
	b. Annual average daily flow rate	0.004	0.004	0.004	4	mgd
	c. Maximum daily flow rate	0.013	013	0	.013	mgd
.7.	Collection System. Indicate the type(s) of col contribution (by miles) of each.	llection system(s) used by	the treatment plant. Check all	that apply. Also es	stimate the perc	ent
	X Separate sanitary sewer				100	0/
	Ocparate samary sewer					%
	Combined storm and sanitary sewer					%
.8.	Discharges and Other Disposal Methods.					
	a. Does the treatment works discharge effluer	nt to waters of the U.S.?		X _{Yes}		No
	If yes, list how many of each of the followin	g types of discharge points	s the treatment works uses:			
	i. Discharges of treated effluent	3 ,,			1	
	ii. Discharges of untreated or partially tre	ated effluent				
	iii. Combined sewer overflow points			<u></u>	· · · · · · · · · · · · · · · · · · ·	
,	iv. Constructed emergency overflows (price	or to the headworks)		_		
	v. Other	or to the headworks,				
	v. Outer					
	 Does the treatment works discharge efflue that do not have outlets for discharge to wa 		er surface impoundments	Yes	<u> </u>	No
	If yes, provide the following for each surfac	e impoundment:				
	Location:					
	Annual average daily volume discharged to	surface impoundment(s)			mgd	
	Is discharge continuous or	intermitte	nt?			
	c. Does the treatment works land-apply treate	d wastewater?	_	Yes	_X	No
	If yes, provide the following for each land a	pplication site:				
	Location:					
	Number of acres:					
	Annual average daily volume applied to site	: <u></u>	Mgd			
	Is land application continu	ous or inte	ermittent?			

FACILITY NAME AND PERMIT NUMBER:

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If transport is by a party	other than the applicant, provide:				
Transporter name:					
Mailing Address:					<u>.</u>
Contact person:					
Title:					
Telephone number.					
For each treatment work	s that receives this discharge, provide the following:				
Name:					
Mailing Address:					
Contact person					
Contact person:					
Title:					
Title: Telephone number:	DES nermit number of the treatment works that receive	use this discharge			
Title: Telephone number. If known, provide the Ni	DES permit number of the treatment works that receiving	_			mad
Title: Telephone number. If known, provide the NF Provide the average dai	flow rate from the treatment works into the receiving	facility.			_ mgd
Title: Telephone number. If known, provide the NF Provide the average dai Does the treatment work		facility.	Yes	X	_ mgd
Title: Telephone number. If known, provide the Ni Provide the average dai Does the treatment work A.8.a through A.8.d abo	flow rate from the treatment works into the receiving states of the discharge or dispose of its wastewater in a manner	facility.	Yes	_X	_ mgd _ No
Title: Telephone number. If known, provide the NF Provide the average dai Does the treatment work A.8.a through A.8.d abo If yes, provide the follow	flow rate from the treatment works into the receiving s discharge or dispose of its wastewater in a manner to e (e.g., underground percolation, well injection)?	facility.	Yes	X	_ ~
Title: Telephone number. If known, provide the NF Provide the average dai Does the treatment work A.8.a through A.8.d about fyes, provide the follows	s discharge or dispose of its wastewater in a manner of e (e.g., underground percolation, well injection)? Ing for each disposal method: Including location and size of site(s) if applicable):	facility.	Yes	_X	_ ~

FACILITY NAME AND PERMIT NUMBER:

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WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

Da a.	escription of Outfall. Outfall number	001			
b.		Covington			24426
IJ.	Location	(City or town, if applicable) Alleghany		 	(Zip Code)
		37 deg. 48 min. 49	SAC		(State) 80 deg. 5 min. 27 sec
		(Latitude)	3 CC.		(Longitude)
C.	Distance from shore (i	f applicable)	N/A	ft.	
d.			N/A	 ft.	
	,		0.004	.	
e.	Average daily flow rate			_ mgd	
f.		either an intermittent or a periodic			
	discharge?		Yes	X	No (go to A.9.g.)
	If yes, provide the follo	wing information:			
	Number of times per y	ear discharge occurs:			
	Average duration of ea	_			
	Average flow per disch	-			mgd
	Months in which disch	arge occurs:			
g.	Is outfall equipped with	n a diffuser?	Yes	Х	No
			-		
. D	escription of Receiving	Waters.			
a.	Name of receiving wat	_{er} Ogle Creel	k		
a.	Name of receiving was				
b.	Name of watershed (if	known)	Unknown	***	
	United States Soil Con	servation Service 14-digit watershe	ed code (if known):	Uı	nknown
		out and the second of the seco			
C.	Name of State Manage	ement/River Basin (if known):	Jame	es River	(Upper)
	United States Geologic	cal Survey 8-digit hydrologic catalog	aina unit code (if knawn):		Unknown
			ging and oddo (ii talowi).		
d.		eiving stream (if applicable): N/A			
	acute	cfs iving stream at critical low flow (if a	chronic	cfs mg/l of	
				ma/Lof	CaCO.

Tanglewood Home for Adults VA0090646

A.11. Description of Tre	eatment.							,				
a. What levels of	treatment are	e provide	ed? Che	ck all that	appi	y.						
Pr	imary			Se	con	dary						
Ac	dvanced			Ot	her.	Describe:						
b. Indicate the following	lowing remov	val rates	(as app	licable):								
Design BOD ₅	removal or D	esign C	BOD, re	moval			> 9	90		%		
Design SS rem	noval		J				> 9	90		%		
Design P remo	val						25			 %		
Design N remo							70			%		
Other			_					•		%		
	isinfection is Chlorinat		r the eff	luent from	this	outfall? If disinfe	ction varies by	season, p	pleas	se describe.		
If disinfection is	s by chlorina	tion, is c	dechlorii	nation used	for	this outfall?		X	Ye	es		No
d. Does the treatn	nent plant ha	ve post	aeratior	1?				Χ	Ye	es		No
minimum, effluen Outfall number.	t testing da	ta must	be bas	ed on at l	east	three samples	and must be	no more	thar	n four and one	-ha) CFR Part 136. At a If years apart.
PARAMET	TER		, n	MIMIXAN	DAI	LY VALUE	ı	Δ	\\/FF	RAGE DAILY \	/A I	IF.
			<u> </u>	'alue		Units	Value			Units		Number of Samples
			6.1									
pH (Minimum)			7.8			s.u.						
pH (Maximum)			0.01	4		s.u. MGD	0.004		M	IGD		365
Flow Rate Temperature (Winter)			8.2	· · · · · · · · · · · · · · · · · · ·		elsius	12.0		Celsius			90
Temperature (Summer)		*	28.3		_	Celsius	23.9	 		Isius		92
* For pH please rep	ort a minimu				lue							
POLLUTANT		M	DISCH	M DAILY ARGE	i	AVERAGE DAILY DISCHARGE		HARGE		ANALYTICA METHOD		ML/MDL
Co		Co	nc.	Units		Conc.	Units	Number Sample				
CONVENTIONAL AND N	ONCONVEN		L COMI	POUNDS.			T	,				
BIOCHEMICAL OXYGEN	BOD-5	N/A										
DEMAND (Report one)	CBOD-5		0.0	mg/L		1.0	mg/L	43		SW5210	2	2 mg/L1
FECAL COLIFORM (E. CO	LI.)		420	n/100	nl		n/100ml	<u> </u>		SM922		2n/100 mL
TOTAL SUSPENDED SOL	IDS (TSS)	29)	mg/L		5.1	mg/L	43		SW2540]	1 mg/L
					ΞN	D OF PAR	TA.					

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-0086						
Tanglewood Home for Adults VA0090646	OMB Number 2040-0060						
BASIC APPLICATION INFORMATION							
DADT C CENTIFICATION							
PART C. CERTIFICATION							
All applicants must complete the Certification Section. Refer to instructions to determ applicants must complete all applicable sections of Form 2A, as explained in the Applicampleted and are submitting. By signing this certification statement, applicants confittated apply to the facility for which this application is submitted.	cation Overview. Indicate below which parts of Form 2A you have						
Indicate which parts of Form 2A you have completed and are submitting:							
X Basic Application Information packet Supplemental Application In	nformation packet:						
Part D (Expanded	Effluent Testing Data)						
Part E (Toxicity Te	sting: Biomonitoring Data)						
Part F (Industrial L	ser Discharges and RCRA/CERCLA Wastes)						
Part G (Combined	Sewer Systems)						
ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.							
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.							
Name and official title Dr. Shridhar Bhat— Owner							
Signature Signature							
Telephone number (804) 421-7991	· · · · · · · · · · · · · · · · · · ·						
Date signed 07/14/2015							
Upon request of the permitting authority, you must submit any other information neces or identify appropriate permitting requirements.	sary to assess wastewater treatment practices at the treatment works						

SEND COMPLETED FORMS TO:

FACILITY NAME: <u>Tanglewood Home For Adults WWTP</u> VPDES PERMIT NUMBER: <u>VA0090646</u> VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

- determine which sections to fill out.

 1. All applicants must complete Section A (General Information).
- 2. Will this facility generate sewage sludge? X Yes No

Will this facility derive a material from sewage sludge? __Yes X No

If you answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material Derived From Sewage Sludge).

3. Will this facility apply sewage sludge to the land? $\underline{\underline{}}$ Yes $\underline{\underline{X}}$ No

Will sewage sludge from this facility be applied to the land? \underline{X} No

If you answered No to both questions above, skip Section C.

If you answered Yes to either, answer the following three questions:

- a. Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions?
 Yes X No
- b. Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land? _Yes _X No
- c. Will sewage sludge from this facility be sent to another facility for treatment or blending? X Yes No

If you answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).

If you answered Yes to a, b or c, skip Section C.

4. Do you own or operate a surface disposal site? Yes X No

If Yes, complete Section D (Surface Disposal).

FACILITY NAME: <u>Tanglewood Home for Adults WWTP</u> VPDES PERMIT NUMBER: <u>VA0090646</u> SECTION A. GENERAL INFORMATION

All applicants must complete this section.

Fac	ility Information.
a.	Facility name: Tanglewood Home for Adults WWTP
b.	Contact person: Nancy Jordan
	Title: Administrator
	Phone: (540) 962-4967
c.	Mailing address:
	Street or P.O. Box: P.O. Box 808
	City or Town: Covington State: VA Zip: 24426
d.	Facility location:
	Street or Route #: 4401 Midland Trail
	County: Alleghany
	City or Town: Covington State: VA Zip: 24426
e.	Is this facility a Class I sludge management facility? Yes X No
f.	Facility design flow rate: 0.018 mgd
g.	Total population served: Approx 50
h.	Indicate the type of facility:
	Publicly owned treatment works (POTW)
	X Privately owned treatment works
	Federally owned treatment works
	Blending or treatment operation
	Surface disposal site
	Other (describe):
b. с.	Mailing address: Street or P.O. Box: P.O. Box 520 City or Town: Culpeper State: VA Zip: 22701 Contact person: Brian White
	Title: Plant Manager
	Phone: (540) 862-5138
d.	Is the applicant the owner or operator (or both) of this facility?
	owner X operator
e.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)
	facility X applicant
Pen	nit Information.
a.	Facility's VPDES permit number (if applicable):VA0090646
b.	List on this form or an attachment, all other federal, state or local permits or construction approvals
~-	received or applied for that regulate this facility's sewage sludge management practices:
	Permit Number: Type of Permit:
	N/A
Indi	an Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge fro

FACILITY NAME: Tanglewood Home for Adults WWTP

VPDES PERMIT NUMBER: VA0090646

- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
 - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
 - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries. ATTACHMENT ONE
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage e sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.

 ATTACHMENT TWO

	Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor? X Yes No						
	If yes, provide the following for each contractor (attach additional pages if necessary).						
	Name: Hamilton Septic Service						
	Mailing address:						
	Street or P.O. Box: 16 Buckskin Lane						
	City or Town: Buena Vista State: VA Zip: 24416						
	Phone: (800) 671-6051						
	Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge: SH-2-181						
	If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of to be provided to the applicant and the respective obligations of the applicant and the contractor(s).	of the se					

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. N/A

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				

9.	Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:
	_XSection A (General Information)
	X_Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
	Section C (Land Application of Bulk Sewage Sludge)
	Section D (Surface Disposal)

FACILITY NAME: Tanglewood Home for Adults WWTP

VPDES PERMIT NUMBER: VA0090646

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title	Dr. Shridhar Bhat - Ov	vner	
Signature	- 73W	Date Signed	07 14 2015
Telephone number _	(804) 421-7991	-	

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

FACILITY NAME: <u>Tanglewood Home for Adults WWTP</u> SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION VPDES PERMIT NUMBER: <u>VA0090646</u> SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

nt Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or
al, provide the following information for each facility from which sewage sludge is received. If you receive
e sludge from more than one facility, attach additional pages as necessary.
Facility name: N/A
Contact Person:
Title:
Phone ()
Mailing address:
Street or P.O. Box:
City or Town: State: Zip:
Facility Address:
(not P.O. Box)
Total dry metric tons per 365-day period received from this facility: dry metric tons
Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site
facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics
Devil Ja Vara Parille
nent Provided at Your Facility.
Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AClass BX Neither or unknown
Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge: Aerobic Digestion
Which vector attraction reduction option is met for the sewage sludge at your facility?
Option 1 (Minimum 38 percent reduction in volatile solids)
Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration)
 Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration)
 Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
 Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature)
 Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
 Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature)
 Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids)
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 Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids)

FAC	ILITY N	NAME: <u>Tanglewood Home fo</u> r Adults WWTPYesNo	VPDES PERMIT NUMBER: <u>VA009064</u>
5.	Sale o	or Give-Away in a Bag or Other Container for Application to the	Land N/A
		plete this question if you place sewage sludge in a bag or other container for sal	
		ion if sewage sludge is covered in Question 4.)	and the second s
	a.	Total dry metric tons per 365-day period of sewage sludge plands for sale or give-away for application to the land:	aced in a bag or other container at your facility dry metric tons
	b.	Attach, with this application, a copy of all labels or notices the given away in a bag or other container for application to the l	at accompany the sewage sludge being sold or
6.	Shipn	ment Off Site for Treatment or Blending.	
	not ap	plete this question if sewage sludge from your facility is sent to another facility oply to sewage sludge sent directly to a land application or surface disposal site. ions 4 or 5. If you send sewage sludge to more than one facility, attach addition	Skip this question if the sewage sludge is covered in
	a.	Receiving facility name: Covington Wastewater Treatment 1	Plant
	b.	Facility contact: George Jamison	
		Title: Chief Operator	
		Phone: (540) 965-6328	
	C.	Mailing address:	
		Street or P.O. Box: 333 W. Locust Street	
		City or Town: Covington State: VA	Zip: <u>24426</u>
	d.	Total dry metric tons per 365-day period of sewage sludge premetric tons	ovided to receiving facility: <u>0.56</u> dry
	e.	List, on this form or an attachment, the receiving facility's VF all other federal, state or local permits that regulate the receiv	
		practices:	
		Permit Number: Type of Permit: VA0025542 VPDES	
	f.	Does the receiving facility provide additional treatment to red facility? X Yes No Which class of pathogen reduction is achieved for the sewage Class A Class B X Neit Describe, on this form or another sheet of paper, any treatmer reduce pathogens in sewage sludge: Anaerobic Digestic	e sludge at the receiving facility? her or unknown tt processes used at the receiving facility to
	g.	Does the receiving facility provide additional treatment to red sewage sludge? X Yes No	uce vector attraction characteristics of the
		Which vector attraction reduction option is met for the sewag	a chidge at the receiving facility?
		Option 1 (Minimum 38 percent reduction in volatile solid	
		Option 2 (Anaerobic process, with bench-scale demonstra	
		Option 3 (Aerobic process, with bench-scale demonstration	
		Option 4 (Specific oxygen uptake rate for aerobically dige	
		Option 5 (Aerobic processes plus raised temperature)	isted studge)
	i	Option 6 (Raise pH to 12 and retain at 11.5)	
		Option 7 (75 percent solids with no unstabilized solids)	
		Option 8 (90 percent solids with unstabilized solids)	
		X None unknown	
		Describe, on this form or another sheet of paper, any treatmen	at processes used at the receiving facility to
			aerobic Digestion
	h.	Does the receiving facility provide any additional treatment of	r blending not identified in f or g above?
		Yes <u>X</u> No	
		If yes, describe, on this form or another sheet of paper, the tre	atment processes not identified in f or g above:
	_		
	i.	If you answered yes to f., g or h above, attach a copy of any ir	nformation you provide to the receiving facility

FACILITY NAME: Tanglewood Home for Adults WWTP

VPDES PERMIT NUMBER: VA0090646

to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G. ATTACHMENT THREE

	j	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land?Yes _X No			
	k.	If yes, provide a copy of all labels or notices that accompany the product being sold or given away. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? X Yes No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.			
		Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of			
		the week and the times of the day sewage sludge will be transported. <u>ATTACHMENT FOUR</u>			
7.	Land	Application of Bulk Sewage Sludge. N/A			
		plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6; ete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)			
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry metric tons			
	b.	Do you identify all land application sites in Section C of this application?YesNo If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).			
	C.	Are any land application sites located in States other than Virginia?YesNo If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.			
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).			
3.		Surface Disposal.			
	(Com _l a.	Dete Question 8 if sewage sludge from your facility is placed on a surface disposal site.) N/A Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: dry metric tons			
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo			
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.			
	c.	Site name or number:			
	d.	Contact person: Title: Phone: () Contact is:Site OwnerSite operator			
	e.	Mailing address. Street or P.O. Box: City or Town: State: Zip:			
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: dry metric tons			
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site:			
9.	Incin	eration. N/A			

(Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)

	a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge
	b.	incinerator: dry metric tons Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
	U. `	YesNo
		If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send
		sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
	c.	Incinerator name or number:
	d.	Contact person:
	u.	Title:
		Phone: ()
		Phone: () Contact is:Incinerator OwnerIncinerator Operator
	e.	Mailing address.
		Street or P.O. Box:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
		incinerator: dry metric tons
	g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
	Ü	firing of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
10.	Dispo	sal in a Municipal Solid Waste Landfill. N/A
	(Comp	lete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information for
		unicipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one
	munici	pal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name:
	b.	Contact person:
		Title:
		Phone: ()
		Contact is:Landfill OwnerLandfill Operator
	C.	Mailing address.
		Street or P.O. Box:
	d.	City or Town: State: Zip: Landfill location.
	u.	
		Street or Route #: County:
		City or Town: State: Zip: Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
	e.	dry metric tons
	f.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the
	1.	operation of this municipal solid waste landfill:
		Permit Number: Type of Permit:
		17PO OT 1 OTHER.
	g.	Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9
	<i>3</i> .	VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
		YesNo
	h.	Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia S olid
		Waste Management Regulation, 9 VAC 20-80-10 et seq.?YesNo
	i.	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill
	-	be watertight and covered? Yes No
		Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the
		week and time of the day sewage sludge will be transported.

FACILITY NAME: Tanglewood Home for Adults WWTP

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VPDES PERMIT APPLICATION ADDENDUM - SUPPLEMENTARY INFORMATION

A.	Gen	General Information		
	1.	Entity to whom the permit is to be issued: _Dr. Shridhar Bhat		
	2.	Classify the discharge as one of the following by checking the appropriate line:		
		Classify the discharge as one of the following by checking the appropriate line: _X a. Existing discharge		
		b. Proposed discharge		
		c. Proposed expansion of an existing discharge		
	3.	Year the current wastewater treatment facility began operation: _2003		
	4.	Provide NAICS Code (Industrial Only)		
В.	Loc	ation		
	1.	Is this facility located within city or town boundaries? Y/NNO		
	2.	(New Issuances & Modifications Only) What is the tax map parcel number for the land where this facility is located?N/A		
	3.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?None		
	4.	Attach to the back of this application a location map(s) which may be traced from or is/are a production of a U.S. Geological Survey topographic quadrangle(s) or other appropriately scaled contour map(s). The location map(s) shall show the following:		
		a. Treatment Plant		
		b. Discharge point		
		c. Receiving waters		
		d. Boundaries of the property on which the treatment plant is located, or to be located.		
		e. Distance from the treatment plant to the nearest: (Indicate "not applicable" for any distance greater than 2000 feet)		
		i. Residence		
		ii. Distribution line for potable water supply		
		iii. Reservoir, well, or other source of water supply		
		iv. Recreational area		
		f. Distance from the discharge point to the nearest:		
		(Indicate "not applicable" for any distance greater than 15 miles)		
		i. Downstream community		
		ii. Upstream and downstream water intake points		
		iii. Shellfishing waters iv. Wetlands area		
		v. Downstream impoundment		
		vi. Downstream recreational area		
		· · · · · · · · · · · · · · · · · · ·		

C. Discharge Description

1. Provide a brief description of the wastewater treatment scheme. Also, attach to this application, a process flow diagram showing each process unit of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system.

The Treatment System is an Activated Sludge System which uses a Biowheel for mixing and aeration of the aeration tank. Following the aeration tank, mixed liquor flows into a clarifier, where solids are settled and either returned to the aeration tank or 'wasted' to the sludge holding tank. From the clarifier, treated water flows into the final holding tank which acts as a wet-well for the effluent pump. The effluent pump is controlled by floats in the final holding tank. Treated wastewater is pumped from the holding tank, through a chlorine contact tank pipe and then to the receiving stream. Sodium hypochlorite solution is injected in the discharge line prior to the contact tank, and sodium bisulfite solution is injected in the discharge line after the contact tank.

2.	What is the design average flow of this facility?0.018 MGD Industrial facilities: What is the max. 30-day avg. production level (include units)?0.007MGD
3.	In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Y/N NO
	If "Yes", please specify the other flow tiers (in MGD) or production levels:
4.	Nature of operations generating wastewater: _Domestic sewage from an assisted living facility
	_100% of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities: 0X1-49 50 or more
	0% of flow from non-domestic connections/sources
5.	Mode of discharge:Continuous _X_IntermittentSeasonal Describe frequency and duration of intermittent or seasonal discharges:Discharges are intermittent at a rate of 10-15 gpm. The duration of discharge is approximately 10-12 minutes per discharge depending on Influent flow
6.	Identify the characteristics of the receiving stream at the point just above the facility's discharge point:
	Permanent stream, never dry X Intermittent stream, usually flowing, sometimes dry Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry Lake or pond at or below the discharge point Other:

E.	Anticipated Phasing Schedule for Plant Capacity - Proposed / Expanding Discharges				
	If this application is for a proposed or expanded discharge(s), complete the phasing schedule below beginning with the year in which construction completion is anticipated and progressing in increments of 5 years for 30 years thereafter.				
	Proposed Design Capacity:	MGD			
	Anticipated Date of Construction Completion:				
		Month	Year		
	Years after Completion	Pro	pjected Flow (M	GD)	
	0				
	5 10				
	15				
	20				
	25				
	30				
F.	Interim Facilities				
	Are the wastewater treatment facilities interim? (designed for a useful life of less than 5 years) Yes X No				
	If so, provide the estimated date to be discontinued (me and location of the intended replacement facility.	onth, year)	,	and the name	
	Name / Location		<u> </u>		
G.	Privately Owned Treatment Works				
	If this application is for a privately owned treatme	ent works serving, or	designed to ser	ve, 50 or	

If this application is for a privately owned treatment works serving, or designed to serve, 50 or more residences, you must include with your application notification from the State Corporation Commission that you are incorporated in the Commonwealth AND verification from the SCC that you are in compliance with all regulations and relevant orders of the State Corporation Commission. Incorporated also includes Limited Liability Companies (LLCs), Limited Partnerships (LPs) and certificates of authority.

H. Consent to Receive Electronic Mail

The Department of Environmental Quality (DEQ) may deliver permits and certifications (this includes permit issuances, reissuances, modifications, revocation and reissuances, terminations and denials) to recipients, including applicants or permittees, by electronically certified mail where the recipients notify DEQ of their consent to receive mail electronically (§ 10.1-1183). Check *only one* of the following to consent to or decline receipt of electronic mail from DEQ as follows:

Applicant or permittee agrees to receive by electronic mail the permit that may be ssued for the proposed pollutant management activity, and to certify receipt of such electronic mail when requested by the DEQ.
Applicant or permittee declines to receive by electronic mail the permit associated with the permit that may be issued for the proposed pollutant management activity.

OWNER INFORMATION

Owner Name:	_Dr. Shridhar Bhat - Owner
Address:	6331 River Road
City, State, Zip	_Richmond, VA 23229
Phone, email	_(804) 421-7991 bhatnph@gmail.com
EMERGENC	Y INFORMATION (if different from above)
Name	_Brian White
Company	_ESS, Ltd
Phone, Cell, Pa	ger540 691-4410
SYSTEM DES	SCRIPTION
System name: _	_Tanglewood Home for Adults WWTP
	otion (e.g. pump station, pretreatment, location, type of facilities served (apartments industrial facility, town, sewer district.
Pump station a	and treatment facility serving an assisted living facility